

WHAT IS CLAIMED IS:

1. A transparent laminate comprising:  
a transparent substrate;  
three or four combination thin-film layers successively  
5 laminated on a surface of said transparent substrate, each of  
said thin-film layers consisting of a high-refractive-index  
transparent thin film and a silver transparent conductive thin  
film; and  
another high-refractive-index transparent thin film  
10 formed on a surface of said combination thin-film layer,  
wherein a standard deviation of visible light  
transmittance in a wave range of from 450 to 650 nm is not larger  
than 5 %.
- 15 2. A transparent laminate according to claim 1,  
wherein each of said silver transparent conductive thin films  
has a thickness in a range of from 5 to 20 nm, each of the  
high-refractive-index transparent thin film located on the  
surface of said transparent substrate and the  
20 high-refractive-index transparent thin film located in an  
outermost layer has a thickness in a range of 20 to 50 nm, and  
each of the other high-refractive-index transparent thin films  
located in an intermediate region between said  
high-refractive-index transparent thin film located on the  
25 surface of said transparent substrate and said

high-refractive-index transparent thin film located as the outermost layer has a thickness in a range of 40 to 100 nm.

3. A transparent laminate according to claim 1,  
5 wherein each of said silver transparent conductive thin films has an approximately constant thickness in a range of from 5 to 20 nm, each of the high-refractive-index transparent thin film located on the surface of said transparent substrate and the high-refractive-index transparent thin film located in an  
10 outermost layer has a thickness  $(5/2) \times (1 \pm 0.15)$  times as large as the thickness of each of said silver transparent conductive thin films, and each of the other high-refractive-index transparent thin films located in an intermediate region between said high-refractive-index transparent thin film located on  
15 the surface of said transparent substrate and said high-refractive-index transparent thin film located as the outermost layer has a thickness  $5 \times (1 \pm 0.15)$  times as large as the thickness of each of said silver transparent conductive thin films.

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4. A transparent laminate according to claim 1,  
further comprising a low-refractive-index transparent thin film formed on said surface of said transparent substrate, said low-refractive-index transparent thin film having a refractive  
25 index  $n_L$  in a range of from 1.3 to 1.6 and having a thickness

of  $550 \text{ nm} \times (1/4n_L) \times (1 \pm 0.15)$ .

5. A transparent laminate according to claim 4,  
further comprising a low-refractive-index transparent thin  
5 film formed on a surface of said high-refractive-index  
transparent thin film located as the outermost layer, said  
low-refractive-index transparent thin film having a refractive  
index  $n_L$  in a range of from 1.3 to 1.6 and having a thickness  
of  $550 \text{ nm} \times (1/2n_L) \times (1 \pm 0.15)$ .

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6. A transparent laminate according to claim 4,  
further comprising any one of an anti-reflection film, an  
anti-mirroring film and a low-reflection anti-mirroring film  
stuck onto said surface of said high-refractive-index  
15 transparent thin film located as the outermost layer, through  
a transparent adhesive layer.

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7. A plasma display panel filter comprising a  
transparent laminate according to claim 1.

8. A plasma display panel filter comprising a  
transparent laminate according to claim 2.

9. A plasma display panel filter comprising a  
25 transparent laminate according to claim 3.

10. A plasma display panel filter comprising a transparent laminate according to claim 4.

11. A plasma display panel filter comprising a transparent laminate according to claim 5.

12. A plasma display panel filter comprising a transparent laminate according to claim 6.

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13. A method for producing a transparent laminate comprising steps of:  
preparing a transparent substrate;  
depositing a high-refractive-index transparent thin film by a vacuum dry process;  
15 depositing a silver transparent conductive thin film by a vacuum dry process;  
repeating said steps for depositing the high-refractive-index transparent thin film and the silver transparent conductive thin film three or four times to thereby  
20 form three or four combination thin-film layers of the high-refractive-index transparent thin film and the silver transparent conductive thin film successively laminated on a surface of said transparent substrate; and  
depositing another high-refractive-index transparent  
25 thin film on a surface of said combination thin-film layer by

the vacuum dry process,

wherein, when said silver transparent conductive thin films are deposited by the vacuum dry process, temperature T (K) of said transparent substrate at the time of the deposition of said films is set to be in a range  $340 \leq T \leq 410$ .

14. A method for producing a transparent laminate comprising steps of:

preparing a transparent substrate;

depositing a high-refractive-index transparent thin film by a vacuum dry process;

depositing a silver transparent conductive thin film by a vacuum dry process;

repeating said steps for forming the

15 high-refractive-index transparent thin film and the silver transparent conductive thin film three or four times to thereby form three or four combination thin-film layers of the high-refractive-index transparent thin film and the silver transparent conductive thin film successively laminated on a  
20 surface of said transparent substrate; and

depositing another high-refractive-index transparent thin film on a surface of said combination thin-film layer by the vacuum dry process,

wherein, when said silver transparent conductive thin  
25 films are deposited by the vacuum dry process, temperature T

(K) of said transparent substrate at the time of the deposition  
of said films is set to be in a range  $340 \leq T \leq 390$ , and deposition  
rate  $R$  (nm/sec) of said silver transparent conductive thin films  
is set to be  $R = (1/40) \times (T - 300) \pm 0.5$ .

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